

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 09/27/01

Date Received: 09/06/01

Project: Metro Self Monitor PO# M86194

Date Extracted: 09/18/01

Date Analyzed: 09/26/01

**RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

Results Reported as mg/L (ppm)

<u>Sample ID</u> Laboratory ID	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M86194 109019-01	1.1	1.4	0.5	0.15
Method Blank	<0.05	<0.05	<0.05	<0.05

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Date of Report: 09/27/01

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QUALITY ASSURANCE RESULTS FROM TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 109031-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	mg/L (ppm)	0.28	0.32	13	0-20
Copper	mg/L (ppm)	0.34	0.39	14	0-20
Nickel	mg/L (ppm)	0.21	0.23	9	0-20
Zinc	mg/L (ppm)	0.12	0.14	15	0-20

Laboratory Code: 109031-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	% Recovery MS	% Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	0.28	95	107	80-120	12
Copper	mg/L (ppm)	2	0.34	98	109	80-120	11
Nickel	mg/L (ppm)	4	0.21	102	112	80-120	9
Zinc	mg/L (ppm)	2	0.12	103	112	80-120	8

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	% Recovery LCS	% Recovery LCSD	Acceptance Criteria	RPD (Limit 20)
Chromium	mg/L (ppm)	2	104	100	80-120	4
Copper	mg/L (ppm)	2	105	102	80-120	3
Nickel	mg/L (ppm)	4	109	107	80-120	2
Zinc	mg/L (ppm)	2	106	105	80-120	1

109019

SAMPLE CHAIN OF CUSTODY

ME
~~RE~~ 9.6.01 AI,

Send Report To Gerard Thompson
 Company Alaskan Copper Works
 Address 628 S. Harvard St
 City, State, ZIP Seattle WA 98134
 Phone # 206-382-8379 Fax # 206-382-9205

SAMPLERS (signature) [Signature]
 PROJECT NAME/NO. METRO SELF maintenance PO # m86194
 REMARKS

Page # _____ of _____
 TURNAROUND TIME
☐ Standard (2 Weeks)
☐ RUSH
 Rush charges authorized by: _____
 SAMPLE DISPOSAL
☐ Dispose after 30 days
☐ Return samples
☐ Will call with instructions

Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS	Cr/Cu/zn				
m86194	01	9/6/01	11:30	H2O	1							✓				

Friedman & Bruya, Inc.
 3012 16th Avenue West
 Seattle, WA 98119-2029
 Ph. (206) 285-8282
 Fax (206) 283-5044

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished to: <u>[Signature]</u>	<u>GERARD A. Thompson</u>	<u>Aew</u>	<u>9/6/01</u>	<u>12:47</u>
Received by: <u>S. O'Leary</u>	<u>S. O'Leary</u>	<u>F&B, Inc.</u>	<u>9/6/01</u>	<u>1pm</u>
Relinquished by:				
Received by:				

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Charlene Morrow, M.S.
Yelena Aravkina, M.S.
Bradley T. Benson, B.S.
Kurt Johnson, B.S.

3012 16th Avenue West
Seattle, WA 98119-2029
TEL: (206) 285-8282
FAX: (206) 283-5044
e-mail: fbi@isomedia.com

September 27, 2001

DUPLICATE COPY

INVOICE #01ACU0927-2

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor PO# M86194 - Results of testing requested by
Gerry Thompson for material submitted on September 6, 2001.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc by Method 6010B @ \$80 per sample	\$ 80.00
Amount Due	\$ 80.00

FEDERAL TAX ID # (b) (6)

FRIEDMAN & BRUYA, INC.

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September 27, 2001

Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

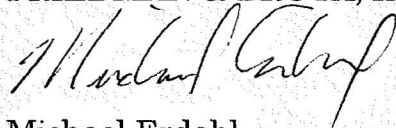
Dear Mr. Thompson:

Included are the results from the testing of material submitted on September 6, 2001 from your Metro Self Monitor PO# M86194 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
ACU0927R.DOC